

PATENT COOPERATION TREATY

To:

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PCT

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

(PCT Rule 43bis.1)

Date of mailing (day/month/year) 14 September 2005 (14.09.2005)

Applicant's or agent's file reference
FP05017

FOR FURTHER ACTION
See paragraph 2 below

International application No.
PCT/KR 2005/000949

International filing date (day/month/year)
31 March 2005 (31.03.2005)

Priority Date (day/month/year)
31 March 2004 (31.03.2004)

International Patent Classification (IPC) or both national classification and IPC
H04L 12/08, 12/46, 12/16

Applicant

LG ELECTRONICS INC.

1. This opinion contains indications relating to the following items:

- ☒ Cont. No. I Basis of the opinion
- ☐ Cont. No. II Priority
- ☐ Cont. No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
- ☐ Cont. No. IV Lack of unity of invention
- ☒ Cont. No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
- ☐ Cont. No. VI Certain documents cited
- ☐ Cont. No. VII Certain defects in the international application
- ☐ Cont. No. VIII Certain observations on the international application

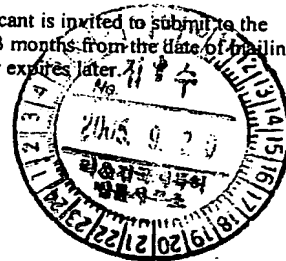
2. FURTHER ACTION

If a demand for international preliminary examination is made, this opinion will be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA") except that this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notified the International Bureau under Rule 66.1bis(b) that written opinions of this International Searching Authority will not be so considered.

If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of 3 months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later.

For further options, see Form PCT/ISA/220.

3. For further details, see notes to Form PCT/ISA/220.



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Continuation No. I

10/594616

Basis of the opinion

1. With regard to the language, this opinion has been established on the basis of the international application in the language in which it was filed.

Continuation No. V

Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)	Claims 1-63	YES
	Claims ----	NO
Inventive step (IS)	Claims ----	YES
	Claims 1-63	NO
Industrial applicability (IA)	Claims 1-63	YES
	Claims ----	NO

2. Citations and explanations:

The following documents have been cited in the Search Report:

D1: Seungcheon Kim et al.; "Home networking digital TV based on LnCP"

D2: Jae-Min Lee et al.; "A new home network protocol for controlling and monitoring home appliances - HNCP"

D3: Koon-Seok Lee et al.; "Network configuration technique for home appliances"

The cited documents are of particular relevance to the subject-matter of the present application, as they all relate to the structure of a home network system.

D1 features the living network control protocol (LnCP), used to connect digital appliances. It describes the four layers of the LnCP, including an application layer. The main role of the application layer is defined as interpreting command codes and performing the proper actions according to the command codes.

Accordingly, the subject-matter of the present application can be derived from D1 by a person having ordinary skill in the art and does not involve an inventive step.

D2 describes a new control network protocol, Home Network Control Protocol (HNCP) for controlling and monitoring home appliances. HNCP is a four-layered protocol and has a standard message set, that guarantees the interoperability between different home appliances.

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Therefore, the subject-matter of the present application arises in obvious way from the state of the art featured in D2, and does not involve an inventive step.

D3 presents a home network configuration technique including automatic address assignment for multiple appliance. If an appliance receives a predetermined primitive (e.g. a 'join request' message), then it generates random values within the range bounded by the argument values, take them as their temporary device code and respond to the Networkmanager with an ACK message.

Accordingly, the subject-matter of the present application can be derived from D3 by a person having ordinary skill in the art and does not involve an inventive step.

Industrial applicability is given.